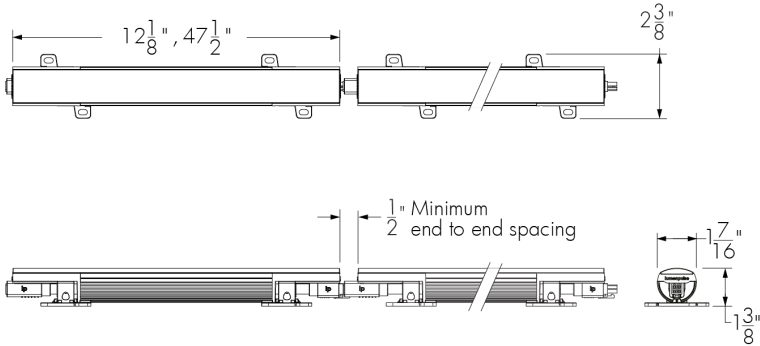


Project Name

Qty

Type

Catalog / Part Number



Top view

Front and Side views, Wide Optic

Wide optic shown

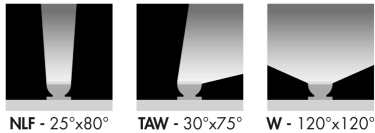
Photometric Summary (Wide Optic)

RO - Regular output			
CCT	Delivered Output [lm]	Power [W]	Efficacy [lm/W]
2700K	1214	12	101
3000K	1254	12	105
3500K	1335	12	111
4000K	1363	12	114

HO - High output [3]			
CCT	Delivered Output [lm]	Power [W]	Efficacy [lm/W]
2700K	1895	20	95
3000K	1959	20	98
3500K	2087	20	104
4000K	2129	20	106

Photometric performance is measured in compliance with IESNA LM-79-08.
[1] Use 0.25 multiplier for each 12in [305mm] section.
[2] Frosted lens option ratio = x0.85.
[3] Estimated. Consult website for the latest photometric files.

Optics



Controls

Powered by **lumendrive™**
ON/OFF 0-10V* DALI* DMX* **lumen talk™****
*Digital Data Bridge required, see wiring diagrams for details.
**Digital and Lumentalk Data Bridge required, see wiring diagrams for details.

Description

The Lumenpulse Lumencove Nano 2.0 family has expanded to include two new optical versions while maintaining their size, efficiency, and durability, thanks to the elimination of the power supply. Their resulting slim profile helps keep the source unseen without compromising their distinct quality of light and ability to deliver continuous lines of light. The Lumencove Nano 2.0 family offers a choice of sizes, outputs, optics and color temperatures, and come with a 10-year limited warranty.

Features

Color and Color Temperature	2700K, 3000K, 3500K, 4000K
Length (Nominal)	12 in, 48 in
Optics	Narrow Linear Flood (25° x 80°) Tilted Asymmetric Wallwash (30° x 75°) Wide (120°x120°)
Power Consumption	3 W/ft (RO version), 5 W/ft (HO version)
Adjustability	Adjustable mounting brackets, +/- 81° tilt angle
Warranty	10-year limited warranty (The limited 10-year warranty is only valid if the product is operated in an ambient environment that does not exceed 25 °C. Otherwise, our limited 5-year warranty shall apply)

Performance

Maximum Delivered Output	1589 lm (HO 4000K, 48 in fixture, Narrow Linear Flood Optic) 1842 lm (HO 4000K, 48 in fixture, Tilted Asymmetric Optic) 2129 lm (HO 4000K, 48 in fixture, Wide Optic, Clear Lens)
Color Consistency	2 SDCM
Color Rendering	Minimum CRI 80
Lumen Maintenance	L70 102,400 hrs (Ta 25 °C) L95 14,000 hrs (Ta 25 °C)

Colors and Color Temperatures



Rating

IP20

Certifications



Physical

Housing Material	Polymer extruded housing
Lens Material	Clear high-transmittance polycarbonate injected lens or frosted lens (applicable to Wide optic only)
Finish	White
Weight	12 in: 0.5 lbs, 48 in: 1.5 lbs

Electrical and Control

Voltage	120 Volts, 230 Volts, 277 Volts
Fixture Cable	Power and data in 1 cable
Leader Cable Conductor	4C #16-4
Fixture Cable and Connector Color	White
Maximum Cable and Fixture Run Length	Up to 150 ft (On/Off control, 120V, RO and HO versions) Up to 300 ft (On/Off control, 230, 277V, RO and HO versions) Up to 150 ft (dimming, 120, 230, 277V, RO and HO versions)
Connector Type	Thumb latch connectors, breakable under load
Control	Powered by Lumendrive AC step drive, no power supply onboard, 0-10V, DMX and DALI dimming enabled with Digital Data Bridge, Lumentalk network enabled with Lumentalk Data Bridge and Digital Data Bridge

Environmental

Storage Temperature	-13 °F to 122 °F (device must reach start-up temperature value before operating)
Start-up Temperature	32 °F to 122 °F
Operating Temperature	32 °F to 122 °F
Environment	Indoor applications only
Ingress Protection Rating	IP20

Accessories (Order Separately)

Cables	Leader Cable, Jumper Cable
Control Boxes	Digital Data Bridge (required for dimming applications), Lumentalk Data Bridge

Important

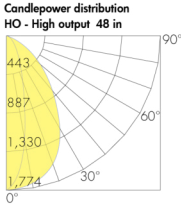
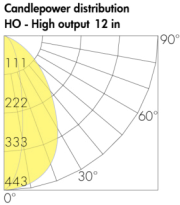
Virtual Patent Marking Notice

This website (<https://www.lmpg.com/patents-trademarks>) is provided to satisfy the virtual patent marking provisions of applicable jurisdictions. Some products listed may be covered by additional patents not referenced here.

Photometric Information

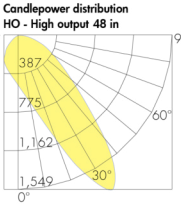
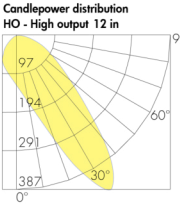
NLF - Narrow Linear Flood (25° x 80°), 4000K

Nominal output [lm]	Delivered output [lm]†	Power [W]	Efficacy [lm/W]
RO - Regular output 12 in	254	3	84
RO - Regular output 48 in	1,017	12	85
HO - High output 12 in	397	5	79
HO - High output 48 in	1,589*	20	79



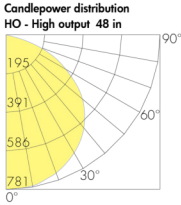
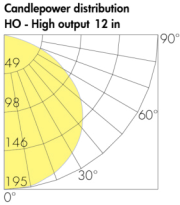
TAW - Tilted Asymmetric Wallwash (30° x 75°), 4000K

Nominal output [lm]	Delivered output [lm]†	Power [W]	Efficacy [lm/W]
RO - Regular output 12 in	295	3	98
RO - Regular output 48 in	1,179	12	98
HO - High output 12 in	461	5	92
HO - High output 48 in	1,842*	20	92



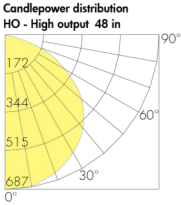
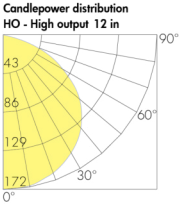
W - Wide (120° x 120°), 4000K, Clear Lens

Nominal output [lm]	Delivered output [lm]†	Power [W]	Efficacy [lm/W]
RO - Regular output 12 in	341	3	114
RO - Regular output 48 in	1,363	12	114
HO - High output 12 in	532	5	106
HO - High output 48 in	2,129*	20	106



W - Wide (120° x 120°), 4000K, Frosted Lens

Nominal output [lm]	Delivered output [lm]†	Power [W]	Efficacy [lm/W]
RO - Regular output 12 in	299	3	100
RO - Regular output 48 in	1,198	12	100
HO - High output 12 in	468	5	94
HO - High output 48 in	1,872	20	94



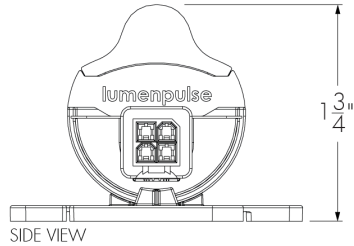
Delivered wattage: +/- 10% tolerance. Add 3 watts to the line of fixtures when specifying Lumentalk™.

† Consult website for latest IES files. Delivered output: +/- 10% tolerance.

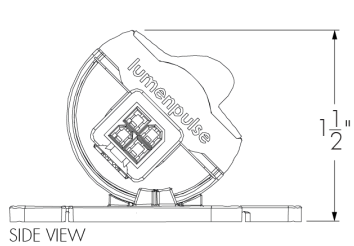
*Photometric performance is measured in compliance with IESNA LM-79-24.

Optics Details

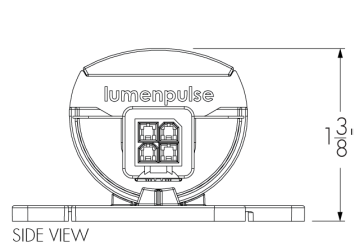
NLF - Narrow Linear Flood (25° x 80°)



TAW - Tilted Asymmetric Wallwash (30° x 75°)

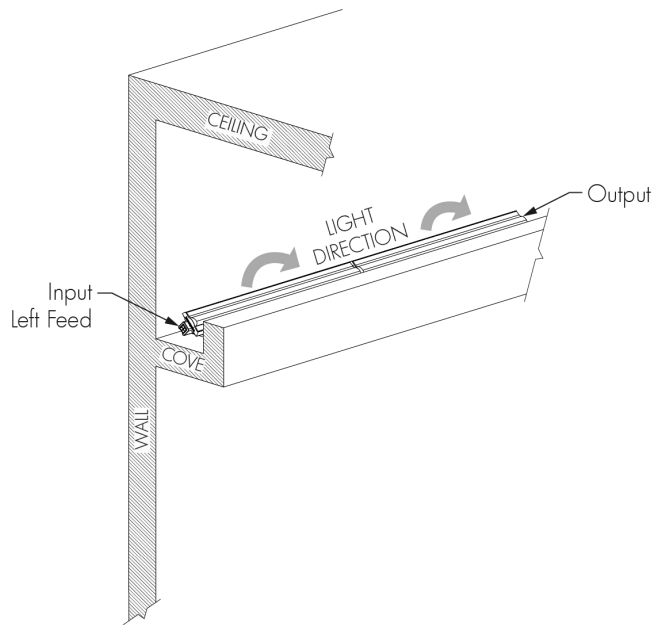


W - Wide (120°x120°)

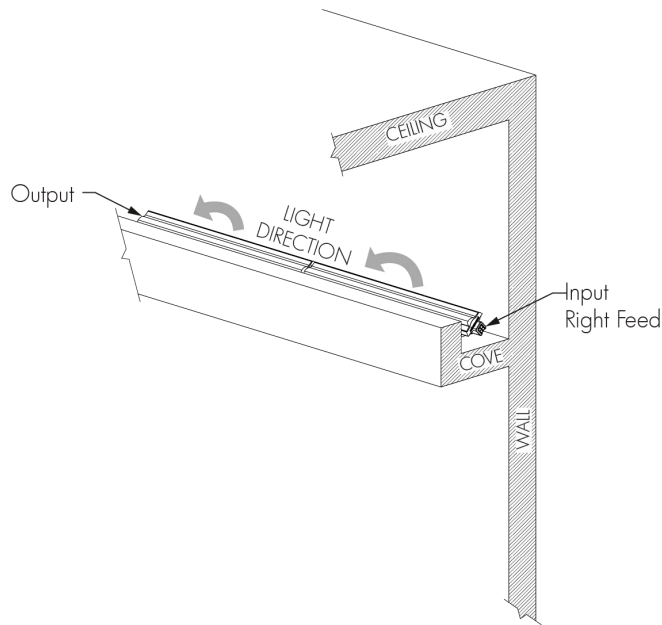


Feeding Side

LF - Left Feeding Side



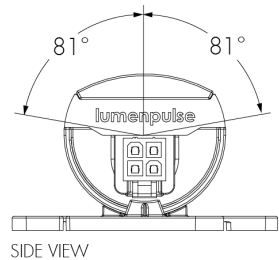
RF - Right Feeding Side



Option available for Tilted Asymmetric Wallwash Optic only.
Fixture's feeding side is based on uplight installations. Feeding sides are reversed when fixture is used in a downlight application.

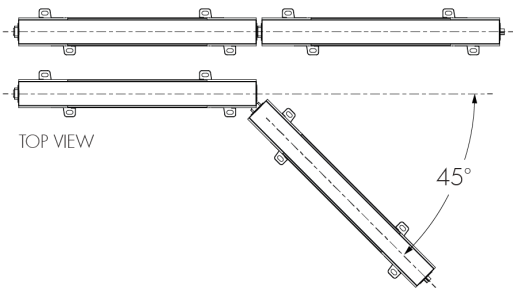
Adjustment

Maximum Pivot Limits



Adjustable in 9° increments

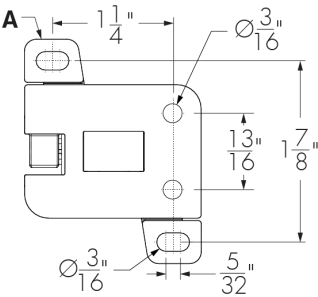
Maximum Angle Adjustment



A jumper cable is required for angles greater than 45°.

Mounting Details

Mounting Plate Dimensions

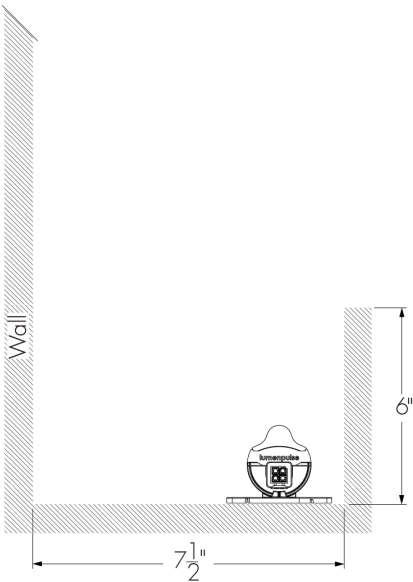


A - Breakable tab

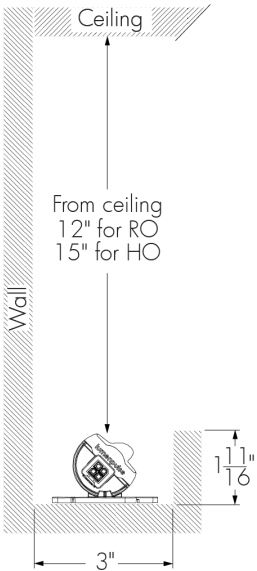
Setback Installation Guidelines

Suggested cove dimensions for minimum cove height.

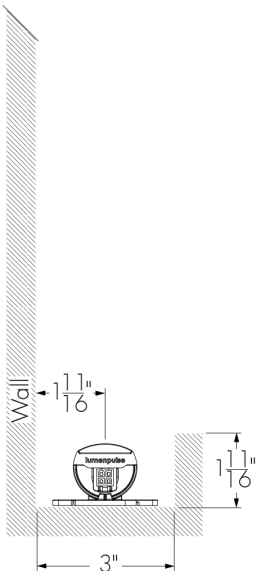
NLF - Narrow Linear Flood (25° x 80°)



TAW - Tilted Asymmetric Wallwash (30° x 75°)



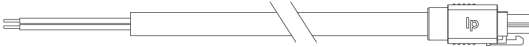
W - Wide (120°x120°)



Fixture is shown with a 45° tilt adjustment. For best results, adjust fixture to a 45° angle and adjust as needed based on installation requirements.

Cables (Order Separately)

LCN2LC - Leader Cable for Lumencove Nano 2.0



LCN2LC-**CERTIFICATION**-120-277-**CONTROL**-**LENGTH**-WH

Please specify:

CERTIFICATION: UL or CE

CONTROL: NO, DIM, DMX, DALI

LENGTH: 10 ft, 25 ft

LCN2JC - Jumper Cable for Lumencove Nano 2.0



LCN2JC-**CERTIFICATION**-**LENGTH**-WH

Please specify:

CERTIFICATION: UL or CE

UL LENGTHS: 2 ft, 4 ft

CE LENGTHS: 4 ft

A jumper cable is required for angles greater than 45°.

Minimum bending radius:

Fixed installation (5 X OD): 1.85 in

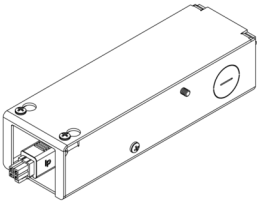
Movable installation (10 X OD): 3.7 in

Maximum pull tension: 49 Newton (5Kgf)

- Suitable for dimming/data and on/off applications.
- Consult Lumencove leader or jumper cable specification sheets for details.
- Digital Data Bridge is include with every leader cable.

Wiring Compartment (Order Separately)

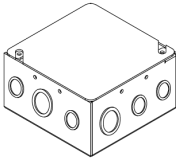
WC-120/277-LCN2-WH - Wiring Compartment



The Wiring Compartment is pre-wired with a leader cable, allowing the quick connection of conduits. Consult WC specification sheet for details.

Control Boxes (Order Separately)

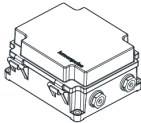
DDB - Digital Data Bridge (Required For Dimming Applications)*



Digital Data Bridge converts 0-10V, DALI and DMX control protocols to be compatible with Lumencove® Nano 2.0. The DDB is an auto-sensing 0-10V Sink/Source device.

*A Digital Data Bridge is included with every leader cable specified for dimming applications. Consult the LCN2 leader cable specification sheet for details.

LDB - Lumentalk Data Bridge



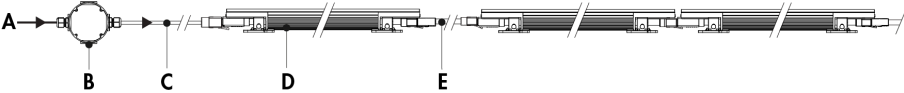
The Lumentalk Data Bridge is a digital interface that connects non-Lumentalk luminaires to the Lumentalk network, 0-10V or DMX output. Consult LDB specification sheet for details.

Typical Wiring Diagrams

Wiring Color Code

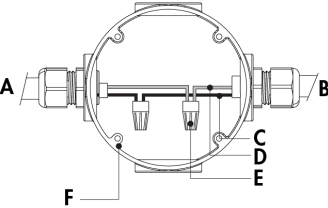
Color Code	USE
Black	Line
White	Line/Neutral
Red	Data +
Orange	Data -

On/Off Control (NO)



- A - Power input (120, 230, 277V, wiring by others)
- B - Junction box (by others)
- C - Leader cable (LCN2LC)
- D - Lumencove Nano 2.0 (LCN2)
- E - Jumper cable (LCN2JC)

On/Off Control (NO) - Wiring Detail



- A - Power input
- B - To fixture
- C - Line
- D - Line/Neutral
- E - Wire-nuts (by others)
- F - Junction box (by others)

Maximum Run of Fixtures Lumencove® Nano 2.0 RO 3 W/ft

Voltage	120V	230V	277V
Maximum Run of Fixtures*	150ft	300ft	300ft

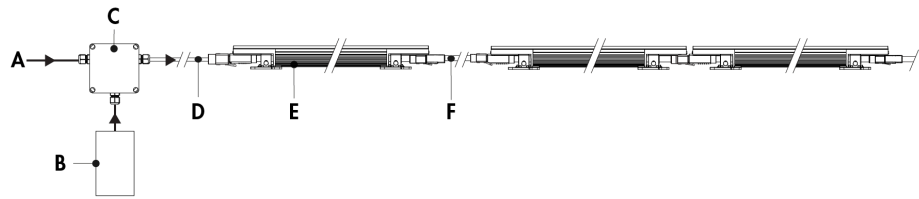
Maximum Run of Fixtures Lumencove® Nano 2.0 HO 5 W/ft

Voltage	120V	230V	277V
Maximum Run of Fixtures*	150ft	300ft	300ft

Based on 10ft or 25ft leader cable.
*Example: 120V = 150ft maximum run of end to end fixtures (37 fixtures maximum for 4ft LCN2).

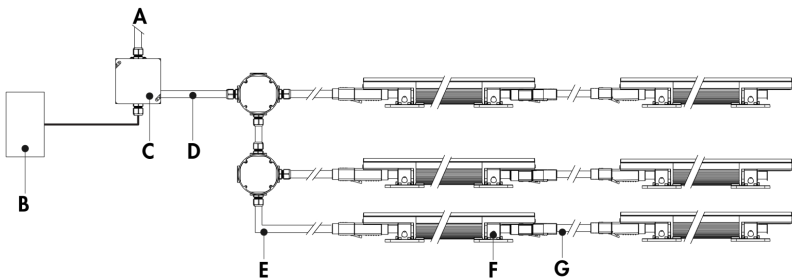
- Consult factory for specific applications and maximum fixture count/cable length recommendations.
- Regular Output version : 3 W/ft, High Output version : 5 W/ft.

0-10V, DALI or DMX Dimming (Digital Data Bridge Required)



- A - Power input (120, 230, 277V, wiring by others)
- B - Dimmer, DALI or DMX controller (by others)
- C - Digital Data Bridge (DDB-DIM, DDB-DALI or DDB-DMX)
- D - Leader cable (LCN2LC)
- E - Lumencove Nano 2.0 (LCN2)
- F - Jumper cable (LCN2JC)

Alternate Wiring Diagram with Digital Data Bridge



- A - Line Input (to match fixture specified voltage)
- B - DMX controller (order separately from Lumenpulse, or by others)
- C - Digital Data Bridge (DDB-DMX)
- D - Power and data wiring
- E - Leader cable (LCN2LC)
- F - Lumencove Nano 2.0 (LCN2)
- G - Jumper cable (LCN2JC)

Maximum Run of Fixtures using Digital Data Bridge Lumencove® Nano 2.0 RO 3 W/ft

Voltage	120V	230V	277V
Maximum Run of Fixtures*	150ft		

Maximum Run of Fixtures using Digital Data Bridge Lumencove® Nano 2.0 HO 5 W/ft

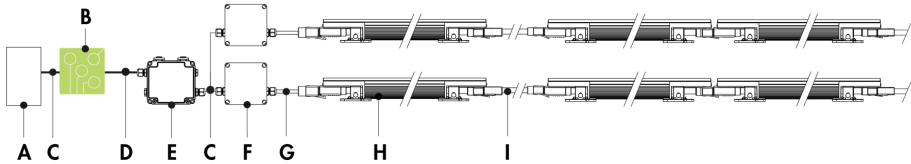
Voltage	120V	230V	277V
Maximum Run of Fixtures*	150ft		

Based on 10ft or 25ft leader cable.

*Example: 150ft maximum run of end to end fixtures (37 fixtures maximum for 4ft LCN2).

- Consult factory for specific applications and maximum fixture count/cable length recommendations.
- Digital Data Bridge required for installation, see DDB installation instructions for details.
- Maximum wire length between Digital Data Bridge and 1st fixture in run is 100 ft assuming 16AWG wire is used.
- 0-10V mA ratings: passive dimmer (Current Sink): 3mA per DDB, active dimmer (Current Source): 0.5mA per DDB. The DDB is an auto-sensing 0-10V Sink/Source device.
- 10% minimum dimming value for 0-10V dimming, 5% minimum dimming value for DALI and DMX dimming.
- Regular Output version : 3 W/ft, High Output version : 5 W/ft.

Lumentalk (LT, Lumentranslator, Lumentalk Data Bridge and Digital Data Bridge required)



- A - Dimmer or DMX controller (order separately from Lumenpulse, or by others)
- B - Lumentranslator (LTL-010, -DMX)
- C - Data wiring (by others)
- D - Power line (120, 230, 277V, AC, wiring by others)
- E - Lumentalk Data Bridge (LDB-DIM or LDB-DMX)
- F - Digital Data Bridge (DDB-DIM or DDB-DMX)
- G - Leader cable (LCN2LC)
- H - Lumencove Nano 2.0 (LCN2)
- I - Jumper cable (LCN2JC)

Maximum Run of Fixtures using Digital Data Bridge Lumencove® Nano 2.0 RO 3 W/ft

Voltage	120V	230V	277V
Maximum Run of Fixtures*	150ft		

Maximum Run of Fixtures using Digital Data Bridge Lumencove® Nano 2.0 HO 5 W/ft

Voltage	120V	230V	277V
Maximum Run of Fixtures*	150ft		

Based on 10ft or 25ft leader cable.
*Example: 150ft maximum run of end to end fixtures (37 fixtures maximum for 4ft LCN2).

- Consult factory for specific applications and maximum fixture count/cable length recommendations.
- Maximum wire length between Digital Data Bridge and 1st fixture in run is 100 ft assuming 16AWG wire is used.
- Lumentalk Data Bridge and Digital Data Bridge required for Lumentalk applications, see LDB and DDB installation instructions for details. All fixtures attached to the Digital Data Bridge will act as 1 zone.
 - For applications with all fixtures controlled as 1 zone: Digital Data Bridge and Lumentalk Data Bridge must be specified as DIM. Maximum of 24 Digital Data Bridges per Lumentalk Data Bridge (LDB-DIM). Consult factory for details.
 - For applications where each Digital Data Bridge is a separate zone: Digital Data Bridge and Lumentalk Data Bridge must be specified as DMX. Maximum of 24 Digital Data Bridges per Lumentalk Data Bridge (LDB-DMX).
- For DMX applications: 1 DMX controller per Lumentalk network, maximum of 48 DMX channels per Lumentalk network (minimum step transition update rate is 1 second, minimum fade time between two colors is 1 minute). Consult factory for applications that require additional capabilities.
- Maximum of 1 transmitter (Lumentranslator or Lumenlink) per system. No third party fixtures allowed on the same circuit.
- Consult factory for DALI Lumentalk applications.
- 10 % minimum dimming value.
- Regular Output version :3 W/ft, High Output version : 5 W/ft.

How to Order

Housing ⁽¹⁾	Certification	Voltage	Length	Color and Color Temperature	Optic	Lens ⁽⁴⁾	Feeding Side ⁽⁵⁾	Finish
LCN2 RO Lumencove® Nano 2.0, Regular Output 3 W/ft ⁽²⁾ LCN2 HO Lumencove® Nano 2.0, High Output 5 W/ft ⁽²⁾	UL UL Compliant ⁽³⁾	120 120 Volts 230 230 Volts 277 277 Volts	12 12 1/8 in (0.5 lbs) 48 47 1/2 in (1.5 lbs)	27K 2700K 30K 3000K 35K 3500K 40K 4000K	NLF Narrow Linear Flood (25° x 80°) TAW Tilted Asymmetric Wallwash (30° x 75°) W Wide (120°x120°)	CL Clear Lens FR Frosted Lens	LF Left Feeding Side RF Right Feeding Side	WH White

Notes:

1. LCN2 is suitable for non-dimming and dimming applications. For dimming applications, a Digital Data Bridge (DDb) is required. For Lumentalk applications, a Digital Data Bridge (DDb) and Lumentalk Data Bridge (LDB) are required. A DDB is included with every LCN2 leader cable that specifies a dimming control option in the leader cable order code. Consult the LCN2 and LCN2 leader cable specification sheets for more information.
2. Consult factory for products that are BAA-approved (Buy American Act).
3. Consult European specification sheet for CE pin detail.
4. Lens options available for W optic only.
5. Feeding side required for TAW optic only.